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1 [Using hypervisor to provide data secrecy for user applications on a per-page basis](#)

[Jisoo Yang, Kang G. Shin](#)

March 2008 **VEE '08**: Proceedings of the fourth ACM SIGPLAN/SIGOPS international conference on Virtual execution environments

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (342.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 235, Downloads (Overall): 544, Citation Count: 3

Hypervisors are increasingly utilized in modern computer systems, ranging from PCs to web servers and data centers. Aside from server applications, hypervisors are also becoming a popular target for implementing many security systems, since they provide ...

Keywords: application protection, data privacy, hypervisor, virtualization

2 [Slingshot: deploying stateful services in wireless hotspots](#)

[Ya-Yunn Su, Jason Flinn](#)

June 2005 **MobiSys '05**: Proceedings of the 3rd international conference on Mobile systems, applications, and services

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (304.65 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 57, Downloads (Overall): 568, Citation Count: 2

Given a sufficiently good network connection, even a handheld computer can run extremely resource-intensive applications by executing the demanding portions on a remote server. At first glance, the increasingly ubiquitous deployment of wireless hotspots ...

3 [Queue: Volume 6 Issue 3](#)

May 2008

Queue

Publisher: ACM

Full text available: Digital Edition, Pdf (5.56 MB)

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 83, Downloads (12 Months): 268, Downloads (Overall): 646, Citation Count: 0

4 [Splitting interfaces: making trust between applications and operating systems configurable](#)

[Richard Ta-Min, Lionel Litt, David Lie](#)

November 2006 **OSDI '06**: Proceedings of the 7th symposium on Operating systems design and implementation

Publisher: USENIX Association


Full text available: Pdf (387.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 51, Downloads (Overall): 154, Citation Count: 4

In current commodity systems, applications have no way of limiting their trust in the underlying operating system (OS), leaving them at the complete mercy of an attacker who gains control over the OS. In this work, we describe the design and implementation ...

5 [Overshadow: a virtualization-based approach to retrofitting protection in commodity operating systems](#)

 Xiaoxin Chen, Tal Garfinkel, E. Christopher Lewis, Pratek Subrahmanyam, Carl A. Waldspurger, Dan Boneh, Jeffrey Dvoskin, Dan R.K. Ports

March 2008 **ASPLOS XIII: Proceedings of the 13th international conference on Architectural support for programming languages and operating systems**

Publisher: ACM  [Request Permissions](#)

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Full text available:  [AVI \(27:48 MIN\)](#),  [FLV \(27:0 MIN\)](#),  [MPEG \(27:49 MIN\)](#),  [PDF \(272.32 KB\)](#)

Bibliometrics: Downloads (6 Weeks): 44, Downloads (12 Months): 381, Downloads (Overall): 841, Citation Count: 7

Commodity operating systems entrusted with securing sensitive data are remarkably large and complex, and consequently, frequently prone to compromise. To address this limitation, we introduce a virtual-machine-based system called Overshadow that protects ...

Keywords: VMM, cloaking, hypervisors, memory protection, multi-shadowing, operating systems, virtual machine monitors

Also published in:

March 2008 **SIGARCH Computer Architecture News** Volume 36 Issue 1



March 2008 **SIGOPS Operating Systems Review** Volume 42 Issue 2

March 2008 **SIGPLAN Notices** Volume 43 Issue 3

6 [Communications of the ACM: Volume 51 Issue 12](#)

 December 2008 Communications of the ACM


Publisher: ACM

Full text available:  [Digital Edition](#),  [PDF \(6.91 MB\)](#)

Additional Information: [full citation](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 471, Downloads (12 Months): 3165, Downloads (Overall): 3955, Citation Count: 0

7 [Flexible security configuration for virtual machines](#)

 Sandra Rueda, Yogesh Sreenivasan, Trent Jaeger

October 2008 **CSAW '08: Proceedings of the 2nd ACM workshop on Computer security architectures**

Publisher: ACM  [Request Permissions](#)

Full text available:  [PDF \(517.78 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 215, Downloads (Overall): 264, Citation Count: 0



Virtual machines are widely accepted as a promising basis for building secure systems. However, while virtual machines offer effective mechanisms to create isolated environments, mechanisms that offer controlled interaction among VMs are immature. Some ...

Keywords: access control, compliance, policy, virtual machines

8 [Queue: Volume 6 Issue 1](#)

 January 2008 Queue


Publisher: ACM

Full text available:  [Digital Edition](#),  [PDF \(6.04 MB\)](#)

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 45, Downloads (12 Months): 206, Downloads (Overall): 536, Citation Count: 0

9 [QoS policies and architecture for cache/memory in CMP platforms](#)

 [Ravi Iyer, Li Zhao, Fei Guo, Ramesh Illikkal, Srihari Makineni, Don Newell, Yan Solihin, Lisa Hsu, Steve Reinhardt](#)

June 2007 **SIGMETRICS '07**: Proceedings of the 2007 ACM SIGMETRICS international conference on Measurement and modeling of computer systems

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (459.91 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 199, Downloads (Overall): 960, Citation Count: 16

As we enter the era of CMP platforms with multiple threads/cores on the die, the diversity of the simultaneous workloads running on them is expected to increase. The rapid deployment of virtualization as a means to consolidate workloads on to a single ...

Keywords: CMP, QoS, cache/memory, performance, quality of service, resource sharing principles, service level agreements

Also published in:

June 2007 **SIGMETRICS Performance Evaluation Review** Volume 35 Issue 1

10 [Communications of the ACM: Volume 51 Issue 11](#)


 November 2008 Communications of the ACM

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (8.26 MB) Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 288, Downloads (12 Months): 1756, Downloads (Overall): 3073, Citation Count: 0

11 [Towards practical page coloring-based multicore cache management](#)

 [Xiao Zhang, Sandhya Dwarkadas, Kai Shen](#)

April 2009 **EuroSys '09**: Proceedings of the 4th ACM European conference on Computer systems

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.03 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 218, Downloads (Overall): 218, Citation Count: 0

Modern multi-core processors present new resource management challenges due to the subtle interactions of simultaneously executing processes sharing on-chip resources (particularly the L2 cache). Recent research demonstrates that the operating system ...

Keywords: cache partitioning, multi-core, page coloring, resource management

12 [A dynamic scheduler for balancing HPC applications](#)

[Carlos Boneti, Roberto Giacosa, Francisco J. Cazorla, Mateo Valero](#)

November 2008 **SC '08**: Proceedings of the 2008 ACM/IEEE conference on Supercomputing

Publisher: IEEE Press

Full text available:  Pdf (410.20 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 196, Downloads (Overall): 258, Citation Count: 0

Load imbalance cause significant performance degradation in High Performance Computing applications. In our previous work we showed that load imbalance can be alleviated by modern MT processors that provide mechanisms for controlling the allocation of ...

13 [Run-time adaptation in river](#)[Remzi H. Arpaci-Dusseau](#)

February 2003

Transactions on Computer Systems (TOCS) , Volume 21 Issue 1**Publisher:** ACM [Request Permissions](#)Full text available: [Pdf](#) (849.04 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 49, Downloads (Overall): 627, Citation Count: 5

We present the design, implementation, and evaluation of run-time adaptation within the River dataflow programming environment. The goal of the River system is to provide adaptive mechanisms that allow database query-processing applications to cope with ...

Keywords: Performance availability, clusters, parallel I/O, performance faults, robust performance, run-time adaptation

14 [From chaos to QoS: case studies in CMP resource management](#)[Fei Guo](#), [Hari Kannan](#), [Li Zhao](#), [Ramesh Illikkal](#), [Ravi Iyer](#), [Don Newell](#), [Yan Solihin](#), [Christos Kozyrakis](#)March 2007 **SIGARCH Computer Architecture News** , Volume 35 Issue 1**Publisher:** ACMFull text available: [Pdf](#) (503.77 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 59, Downloads (Overall): 298, Citation Count: 2

As more and more cores are enabled on the die of future CMP platforms, we expect that several diverse workloads will run simultaneously on the platform. A key example of this trend is the growth of virtualization usage models. When multiple virtual machines ...

15 [Flicker: an execution infrastructure for tcb minimization](#)[Jonathan M. McCune](#), [Bryan J. Parno](#), [Adrian Perrig](#), [Michael K. Reiter](#), [Hiroshi Isozaki](#)

April 2008

Eurosys '08: Proceedings of the 3rd ACM SIGOPS/EuroSys European Conference on Computer Systems 2008**Publisher:** ACMFull text available: [Pdf](#) (322.80 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 20, Downloads (12 Months): 173, Downloads (Overall): 430, Citation Count: 12

We present Flicker, an infrastructure for executing security-sensitive code in complete isolation while trusting as few as 250 lines of additional code. Flicker can also provide meaningful, fine-grained attestation of the code executed (as well as its ...

Keywords: late launch, secure execution, trusted computing

Also published in:

April 2008 **SIGOPS Operating Systems Review** Volume 42 Issue 4**16** [Devirtualizable virtual machines enabling general, single-node, online maintenance](#)[David E. Lowell](#), [Yasushi Saito](#), [Eileen J. Samberg](#)

December 2004

ASPLOS-XI: Proceedings of the 11th international conference on Architectural support for programming languages and operating systems**Publisher:** ACM [Request Permissions](#)Full text available: [Pdf](#) (174.01 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 107, Downloads (Overall): 1148, Citation Count: 8

Maintenance is the dominant source of downtime at high availability sites. Unfortunately, the dominant mechanism for reducing this downtime, cluster rolling upgrade, has two shortcomings that have prevented its broad acceptance. First, cluster-style ...

Keywords: availability, online maintenance, planned downtime, virtual machines

Also published in:

November 2004 **SIGPLAN Notices**

Volume 39 Issue 11

December 2004 **SIGOPS Operating Systems Review**

Volume 38 Issue 5

December 2004 **SIGARCH Computer Architecture News** Volume 32 Issue 5**17** [A survey of rollback-recovery protocols in message-passing systems](#)[E. N. \(Moutaz\) Elnozahy](#), [Lorenzo Alvisi](#), [Yi-Min Wang](#), [David B. Johnson](#)

September 2002

Computing Surveys (CSUR), Volume 34 Issue 3**Publisher:** ACM [Request Permissions](#)

Full text available: Pdf (549.68 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)**Bibliometrics:** Downloads (6 Weeks): 57, Downloads (12 Months): 567, Downloads (Overall): 4393, Citation Count: 112

This survey covers rollback-recovery techniques that do not require special language constructs. In the first part of the survey we classify rollback-recovery protocols into *checkpoint-based* and *log-based*. *Checkpoint-based* protocols ...

Keywords: message logging, rollback-recovery**18** [Protectit: trusted distributed services operating on sensitive data](#)[Jiantao Kong](#), [Karsten Schwan](#), [Min Lee](#), [Mustaque Ahamad](#)

April 2008

Eurosys '08: Proceedings of the 3rd ACM SIGOPS/EuroSys European Conference on Computer Systems 2008**Publisher:** ACM

Full text available: Pdf (482.44 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 111, Downloads (Overall): 319, Citation Count: 2

Protecting shared sensitive information is a key requirement for today's distributed applications. Our research uses virtualization technologies to create and maintain trusted data paths across distributed machines, for the services being run and their ...

Keywords: data protection, traffic interception, trusted data path

Also published in:

April 2008 **SIGOPS Operating Systems Review** Volume 42 Issue 4**19** [Communications of the ACM: Volume 52 Issue 3](#)

March 2009

Communications of the ACM

Publisher: ACM

Full text available: Digital Edition, Pdf (7.04 MB)

Additional Information: [full citation](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 299, Downloads (12 Months): 2496, Downloads (Overall): 2496, Citation Count: 0**20** [The evolution of virtualization](#)[Kirk L. Kroeker](#)

March 2009

Communications of the ACM, Volume 52 Issue 3**Publisher:** ACM [Request Permissions](#)

Full text available: Digital Edition, HTML (15.44 KB), Pdf (1.35 MB)





Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 143, Downloads (12 Months): 2948, Downloads (Overall): 2948, Citation Count: 0

Virtualization is moving out of the data center and making inroads with mobile computing, security, and software delivery.

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